Declassification Review by NGA

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S E C R E T 220206Z CITE 0493 1957 AFR 22	02 29 Z	25 X 1
	:	25X1
SUBJ: EVALUATION OF 111B MATERIAL FROM MISSION HT 67-11Ø REF:	7 112	2 ction 25X1
1. MISSION HT 67-110, FLOWN ON 14 MARCH 1967, EMPLOYED A 111E		
(H) CAMERA SYSTEM IN THE U-2 AIRCRAFT. THE MATERIAL WAS PROCESSION THE FIELD. ALL PHOTOGRAPHY (LESS EDIT CLIPS) INCLUDING THE	J. D	
ORIGINAL NEGATIVE AND DUPE POSITIVE FROM THE MAIN CAMERA, AND THE		6
TION AND ANALYSIS. INCLUDED WITH THE PHOTOGRAPHY WERE THE	FAG CIAMIC-4	25X1
DATA, SUN ANGLE DATA, ON/OFF TIMES, OBLIQUE ANGLES USED, THE MISSION DATA SHEET AND A MISSION PLOT OF BOTH THE FLIGHT TRACK		25X1
AND PHOTOGRAPHIC COVERAGE.	Advance cop	у.
2. THE QUALITY OF THE 111B PHOTOGRAPHY IS CONSIDERED GOOD PROVIDING RESOLUTIONS OF APPROXIMATELY ONE FOOT IN THE NEAR VERT	Sanitized ICAL	
PHOTOGRAPHY AND		25X1
NO DOUBLE IMAGERY WAS DETECTED THROUGHOUT THE MISSION; HOWEVER,	HE	
NO PHOTOGRAPHY WAS ATTEMPTED IN THE CRITICAL OBLIQUITIES WHERE TO DOUBLE IMAGERY USUALLY OCCURS (BETWEEN 40 AND 50 DEGREES). THE	RE	
ARE ISOLATED FRAMES CONTAINING FUZZY IMAGERY THAT OCCUR WHEN THE	E	

PILOT CHANGES THE AIM ANGLE. EXAMPLES OF THIS ANOMALY ARE:

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TIME	FRAME	AIM ANGLE (TENTHS OF DEGREES)
Ø 4 2Ø29	1093	39.2R
042106	1170	25.5R
Ø 4 2553	1349	Ø5.3R
042612	1365	16.9R
043146	1491	12.5R
043159	15Ø1	24.8R
Ø43224	1521	32.8R
043303	1552	Ø6.2R
Ø4341 7	1658	20.6L
Ø4343Ø	1668	15.ØL
043444	1679	23.9L
043455	1687	26.1L
044243	1797	60.1L
Ø4434 8	1849	60.8L

3.	CERTAIN	INFORMATION	CONTAINED	IN	PARAGRAPH	F	OF	THE	
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CABLE WAS IN ERROR. THE ITEMS NOTED WITH AN ASTERISK (') WERE

25X1

25X1

IN ERROR AND SHOULD READ AS FOLLOWS:

E Ø4Ø3 23Ø5N 11943*

F Ø4Ø8 2331N 1193ØE *

1212ØE MODE 5' I 0430 2512N

12Ø29E MODE 5' Ø532 2226N R

Ø611 243ØN' 12Ø1ØE' U

ALL ALTITUDES WERE IN ERROR. THE ENTIRE MISSION WAS FLOWN IN MODE

THE PLOT OF THE FLIGHT TRACK REFLECTS THE SAME ERRORS CONTAINED

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IN THE ALTHOUGH THE PHOTOGRAPHIC COVERAGE WAS ACCURATE.

- 4. THE PROCESSING SITE DID NOT COMPLY WITH THE TITLING INSTRUCTIONS PROMULGATED BY REFERENCE.
 - A. TEN POINT TYPE WAS USED.
 - B. THE DATE WAS NOT INCLUDED IN THE TITLING.
- C. THE TITLED FRAME NUMBER AND THE COUNTER NUMBER ARE IDENTICAL ON THE SAME FRAME.

THE REFERENCE STATES THAT "THE FIRST FRAME OF IMAGERY SHOULD BE TITLED 0001" AND "THE TITLED NUMBER WILL NOT CORRESPOND WITH THE DATA CHAMBER NUMBER."

- ARE RECORDED ONE FRAME AHEAD OF THE ACTUAL PHOTOGRAPHY IN THIS
 CAMERA SYSTEM. IT IS IMPORTANT THAT THIS INFORMATION BE READILY
 AVAILABLE. DURING THE BREAKDOWN, THE PROCESSING SITE SHOULD RECORD
 THE DATA FROM THE LAST FRAME OF A CAN TO THE HEAD IDENT OF THE FOLLOWING CAN. WHEN FRAMES ARE REMOVED FROM THE MISSION (EDIT CLIPS)
 THE INFORMATION FROM THE LAST FRAME OF THE MATERIAL REMOVED SHOULD
 BE RECORDED ON THE TARGET (CLEAR FILM) THAT IS INSERTED WHERE THE
 FRAMES ARE REMOVED. IN MISSION HT 67-110 THIS INFORMATION WAS
 RECORDED ON THE TARGET INSERTS AND ON THE HEAD IDENT OF PART 1
 ONLY. THE TIME OF PHOTOGRAPHY WAS RECORDED IN ERROR IN BOTH INSTANCES.
- 6. MODE 5 WAS USED ON THIS ENTIRE MISSION. MODE 5 CONSISTS
 OF FOUR OBLIQUE ANGLES IN INCREMENTS OF 1.5 DEGREE ABOUT A PARTICULAR AIM ANGLE BETWEEN Ø DEGREE AND 70 DEGREES. IN THE FIRST 2400

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FRAMES OF THIS MISSION THERE WERE 65 CHANGES IN THE AIM ANGLE.

THIS AVERAGES A CHANGE IN AIM ANGLE EVERY 52 SECONDS. THE FOLLOWING CORRELATION OF FRAME, TIME AND AIM ANGLE ARE BROUGHT TO YOUR ATTENTION:

FRAME	TIME	AIM ANGLE
1560	043312	Ø4.8L
1658	043417	20.6L
1668	043430	15.ØL
1669	Ø43431	25.1L
1682	Ø 4344 8	30.9L
1689	Ø4345 7	39.3L
1718	044103	67.9L
1797	044243	60.1L
1850	Ø4435Ø	68.3L
1887	Ø44435	72.2L
2056	Ø448Ø7(CAN	0FF) 66.2L
2057	Ø45136(CAM	1 ON) 67.ØR
2149	Ø45331	58.2R
2150	Ø45332	44.6R
2151	045333	31.2R
2152	Ø45335	17.2R
2153	Ø45336	Ø2.5R
2154	Ø45337	12.8L
2155	Ø45338	30.1L
2156	Ø4534Ø	53.9L

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ullet	
2157 Ø45341 67.2L	
2172 Ø454ØØ 63.7L	
IT APPEARS THAT THE PILOT SHOULD HAVE BEEN IN STANDBY AS HE CHANGED	
TO SOME OF THESE AIM ANGLES OR THE SHOULD REFLECT THAT	25 X 1
HE IS CHANGING FROM LEFT OBLIQUE TO RIGHT OBLIQUES AND BACK TO LEFT	
OBLIQUES. THE MISSION DATA SHEET REFLECTS THE CAMERA OFF AT	
044807 AND THE CAMERA ON AT 045136 BUT INDICATES THAT THE OBLIQUE	
ANGLE WAS AT 67.0 DEGREES LEFT UNTIL 051100. IT IS OBVIOUS THAT HE	_
STARTED AT 67.0 DEGREES RIGHT, SWEPT THROUGH 0.0 DEGREE, AND CON-	
TINUED TO 67.2 DEGREES LEFT.	
7. TO EXPEDITE EXPLOITATION OF 111B MATERIAL THE FOLLOWING	
SUGGESTIONS SHOULD BE CONSIDERED:	
A. PROVIDE AN ACCURATE RECORDING	25 X 1
(1) TIME	
(2) COORDINATES	
(3) ALTITUDE	
(4) CAMERA ON/OFF POINTS	
(5) CAMERA MODE	
(6) AIM ANGLE (APPROXIMATE DEGREES AND LEFT OR RIGHT)	
B. FORWARD THE TRACKER MATERIAL ORIGINAL NEGATIVE OR DUPE	
POSITIVE TO ASAP PRIOR TO THE SHIPMENT OF THE MISSION	25 X 1
MATERIAL.	
C. PROVIDE WITH A TARGET LISTING BY COORDINATES OR	25 X 1
COMOR TARGET NUMBER.	
D. TITLE FILM IN COMPLIANCE WITH EXISTING INSTRUCTIONS.	

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- E. LIMIT EACH PART TO APPROXIMATELY 300 FRAMES IF THIS LENGTH OF DUPE FILM IS ECONOMICALLY FEASIBLE.
- F. WRITE THE DATA INFORMATION FROM THE LAST FRAME OF EACH PART ON THE HEAD IDENT OF THE FOLLOWING PART.
- 8. AN EVALUATION AND ANALYSIS OF THE TRACKER CAMERA WILL BE IN A SEPARATE CABLE.

SECRET

-- END OF MESSAGE--